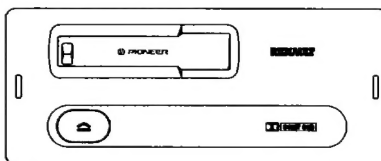


Service Manual

PIONEER
The Art of Entertainment
RENAULT

KPX-1056ZRN/WL



ORDER NO.
CRT1880

CASSETTE PLAYER

KPX-1056ZRN ^{WL}

KPX-1056ZRN ^{X1B/WL}

VEHICLE	DESTINATION	PRODUCED AFTER	RENAULT PART No.	ID No.	PIONEER MODEL No.
MATRA ESPACE	EUROPE	JULY 1996	6025 30 1091	—	KPX-1056ZRN/WL KPX-1056ZRN/X1B/WL

NOTE:

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- See the separate manual CX-529(CRT1507) for the cassette mechanism description.
- The cassette mechanism employed in this model is one of 1L mechanism series.

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K-FFA. JULY 1996 Printed in Japan

1. SPECIFICATIONS

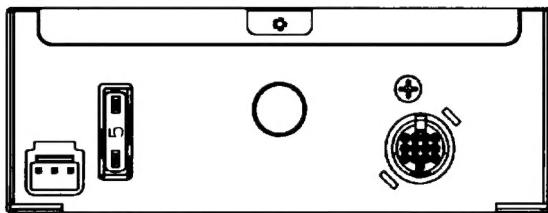
General

Power source	14.4 V (10.5 — 16.0 V)
Grounding system	Negative type
Dimensions	
(mounting size)	135 (W) × 50 (H) × 142 (D) mm
(front face)	147 (W) × 60 (H) × 9.5 (D) mm
Weight	1.0 kg

Tape player

Tape used.....	Compact cassette tape
	Max. 90 minutes (C-90)
Tape speed	4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)
Wow and flutter.....	0.09 % (WRMS)
Fast forward/rewind time	Approx. 100 sec. (C-60)
Frequency characteristics	30 — 15,000 Hz (±3 dB)
S/N (IHF-A network)	DOLBY B NR OFF
	60 dB (chrome/metal tape)
	DOLBY B NR ON
	66 dB (chrome/metal tape)
Stereo separation	40 dB

2. CONNECTOR FUNCTION DESCRIPTION



1.	ISO. GND
2.	LCH
3.	ISO. GND
4.	RCH
5.	BUS. GND
6.	BUS. GND
7.	MUTE
8.	BUS. GND
9.	BSRQ
10.	BRST
11.	BRXEN
12.	BDATA
13.	BSCK

1.	GND
2.	ILL
3.	BUP



Fig. 1

3. DISASSEMBLY

- **Removing the Case(not shown)**

1. Insert and turn a flat screwdriver to remove the case.

● Removing the Cassette Mechanism Module (not shown)

1. Remove the four screws.
2. Disconnect the connector.
3. Remove the cassette mechanism module.

● Removing the Grille Assy(Fig. 2)

1. Disconnect the five stoppers indicated by arrows.
2. Remove the grille assy.

● Removing the Cassette Deck Unit(Fig. 2)

1. Remove the two screws
2. Unbend the tabs at two locations indicated by arrows until straight.
3. Raise up on cassette deck unit to remove it from chassis unit.

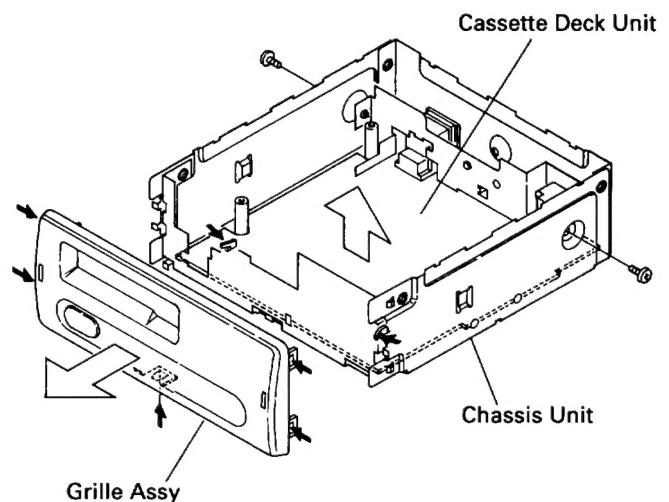


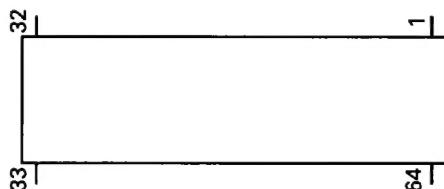
Fig. 2

5. IC INFORMATION

● Pin Functions(PD4529A)

Pin No.	Pin Name	I/O	I/O Format	Function and Operation
1	STDBY	O	C	PA2022 standby control
2	DMUTE	O	C	Deck mute
3	NC			Open
4	BRXEN	I/O	C	Reception enable input/output
5	BSRQ	O	C	Service request output
6	BSI	I		Serial data input
7	BSO	O	C	Serial data output
8	BSCK	I/O	C	Serial clock input/output
9-16	NC			Open
17	VSS			GND
18	MTLSW	I		70 μ tape switch detector
19	LOADSW	I		Loading switch detector
20	MSIN	I		Music search sense
21	NES	I		Normal reel sense
22	RES	I		Reverse reel sense
23	POS	I		Position reel sense
24, 25	NC			VSS connection
26-31	NC			Open
32	VSS			GND
33-42	NC			Open
43	RESET	I		Reset input
44	NC			VSS connection
45	BSENS	I		Back up sense input
46	BRST			Terminal reset
47	EJECT	I		Eject key
48	VDD			Power supply
49, 50	X2, 1			Crystal oscillator connection
51	IC			VSS connection
52	XT2			Open
53	TESTIN	I		Test program input
54	AVSS			VSS connection
55	CM	O	C	Capstan motor control output
56, 57	SC1, 2	O	C	Sub motor control 1, 2
58	PLAY	O	C	Music search gain select
59	DIRO	O	C	Head normal/reverse select
60	NR	O	C	NR ON/OFF select
61	DLBYBC	O	C	Dolby B/C select
62	TAPPW	O	C	Power supply control
63	AVDD			VDD connection
64	AVREF			VSS connection

*PD4529A



Format	Meaning
C	C MOS

IC's marked by* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

6. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol & No. Part Name====	Part No.	====Circuit Symbol & No. Part Name====	Part No.
Unit Number : CWM3732(KPX-1056ZRN/WL)		C 960	CEAS471M16
UWM3732(KPX-1056ZRN/X1B/WL)		C 961	CEAR22M50LS2
Unit Name : Cassette Deck Unit		C 962	CEA220M6R3LS
		C 969	CASAQ100M6R3
		C 970	CASAQ100M10
MISCELLANEOUS		Unit Number : CWM3792	
IC 751	PD4529A	Unit Name : Deck Unit	
IC 851	BA3121		
IC 951	PAJ001A		
IC 952	NJM2930-85B		
Q 851 852	DTC343TS	MISCELLANEOUS	
		IC 251	HA12163
Q 855	DTA124ES	IC 351	PA2020A
Q 951	2SD1859	Q 271	2SC4116
Q 953	2SB1238	Q 351	2SB1260
Q 954 960	DTC124ES	Q 352	2SC4102
Q 955	2SC2458		
		D 351	MA141K
D 751 752 753 754 755 756 757 758 759 760	1SS133	VR 301 302	Semi-fixed 33kΩ(B)
D 851 852 956	1SS133		CCP1130
D 951	ERC05-10BE3		
D 960	ERA15-02VH	RESISTORS	
L 751	LAU150K	R 251 252 253 254	RS1/10S104J
		R 255 256	RS1/10S181J
L 951	Coil	R 257 258 271	RS1/10S183J
X 751	Ceramic Resonator 4.190MHz	R 259 260	RS1/10S133J
S 752	Switch(Eject)	R 261 262 403 405	RS1/10S274J
IL 951	Lamp 14V 40mA		
EF 951	EMI Filter	Unit Number :	
		Unit Name : Mechanism P.C.Board	
RESISTORS		S 1 2	Switch(70μ,Load)
R 751 752 753 754 755 787	RD1/4PU681J	EGN 1 2	Photo-Reflector
R 756 961	RD1/4PU563J	R 1	CSN1022
R 757 758 759 773 774 775 776 777 778 779	RD1/4PU473J	R 2	EGN1001
R 760 855 962 966	RD1/4PU104J		RD1/4HM271J
R 766 767 768 769 770 771 772 781 782 783	RD1/4PU102J		RD1/4HM681J
		Miscellaneous Part List	
R 784 785 786	RD1/4PU102J	FU 1	Fuse 5A
R 788 963 964 967 968	RD1/4PU473J	HD 1	Head Assy
R 789	RD1/4PU105J	M 1	Motor(Main)
R 790	RD1/4PU101J	M 2	Motor(Sub)
R 851 852	RD1/4PU122J	EGN 3	Photo-Interrupter
			CEK1005
R 853 854 953	RD1/4PU223J		EXA1301
R 951 952 954	RD1/4PU472J		EXA1335
R 955	RD1/4PU222J		EXA1279
R 956	RD1/4PU120J		EGN1002
R 960 965	RD1/4PU154J		
CAPACITORS			
C 752 857 957	CKPYY103M16L		
C 753	CEA470M6R3LS		
C 756	CEA101M10LS		
C 757 758 759 760 761	CKPYB221K50L		
C 851 852	CEALNP100M10		
C 853 854 858	CEA010M50LS2		
C 855	CEA470M16LS		
C 856	CEA4R7M25LS2		
C 951 956	CEA100M16LS2		
C 952	CEAS222M16		

7. CIRCUIT DIAGRAM AND PATTERN

7.1 CASSETTE DECK UNIT

● Connection Diagram

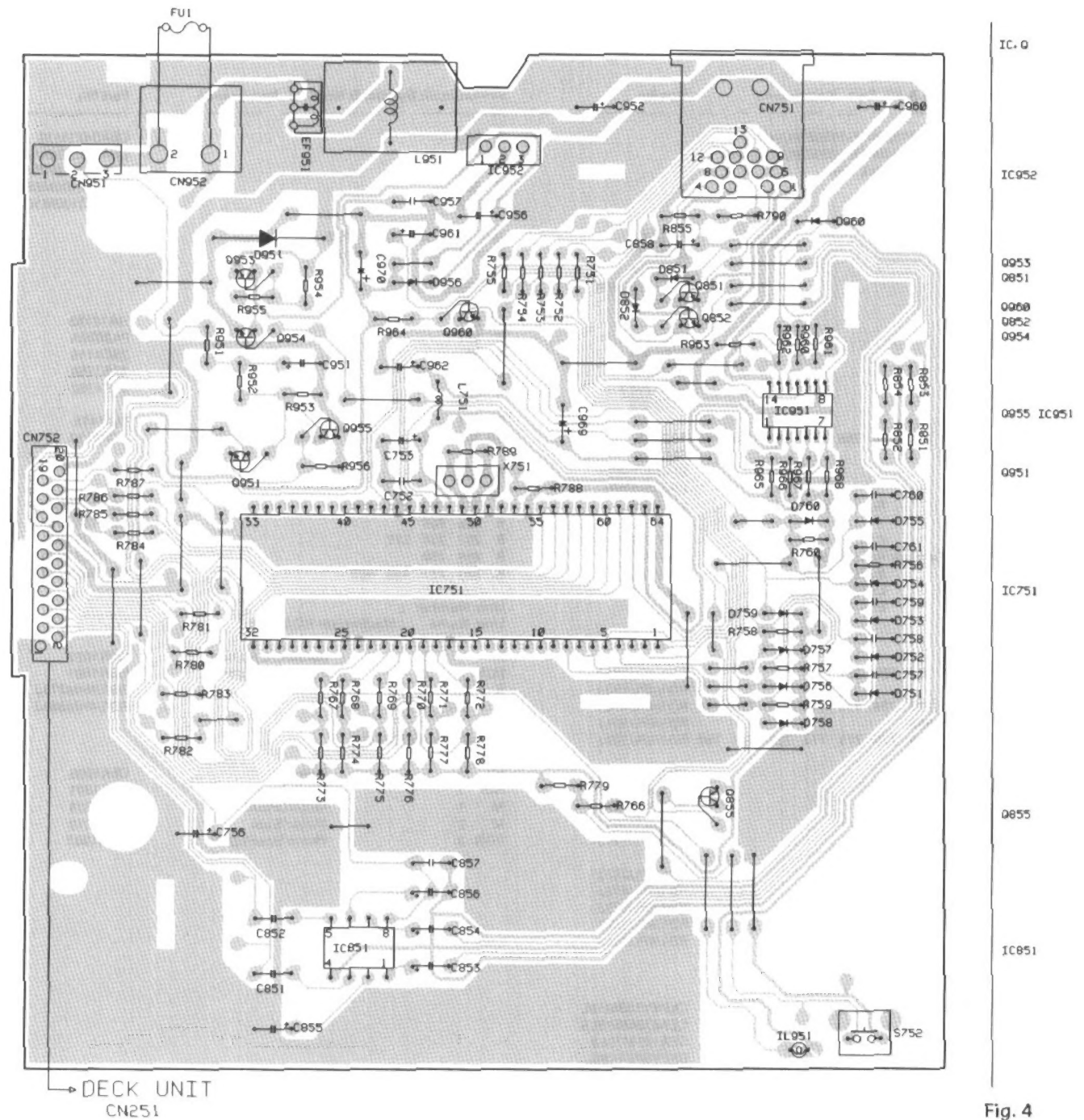
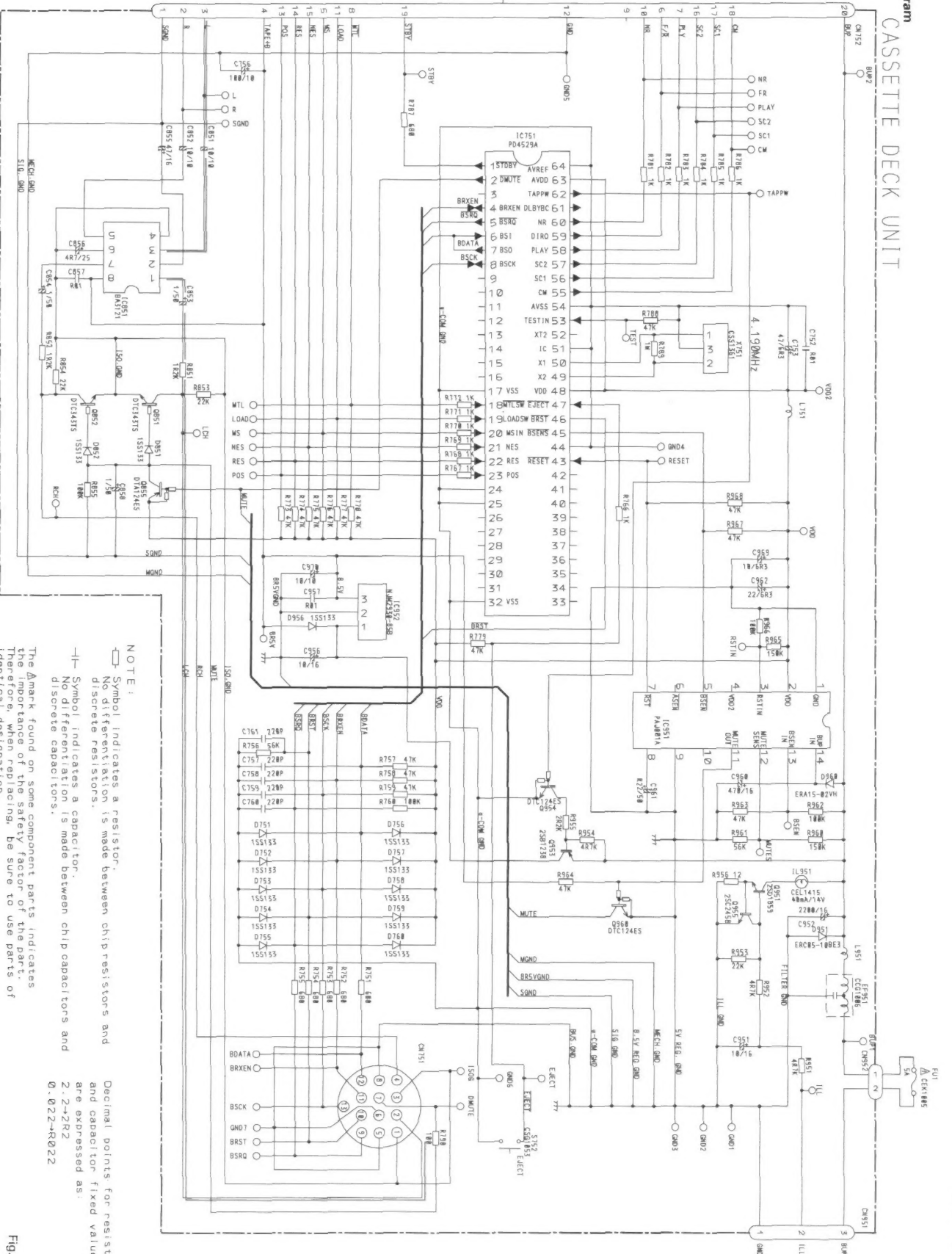


Fig. 4

● Circuit Diagram

CASSETTE DECK UNIT

DECK UNIT CN251



NOTE:

- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

The Ampak found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

Decimal points for resistor and capacitor fixed values are expressed as:
 2.2-2R2
 0.022-0R022

Fig. 5

7.2 CASSETTE MECHANISM MODULE

● Circuit Diagram

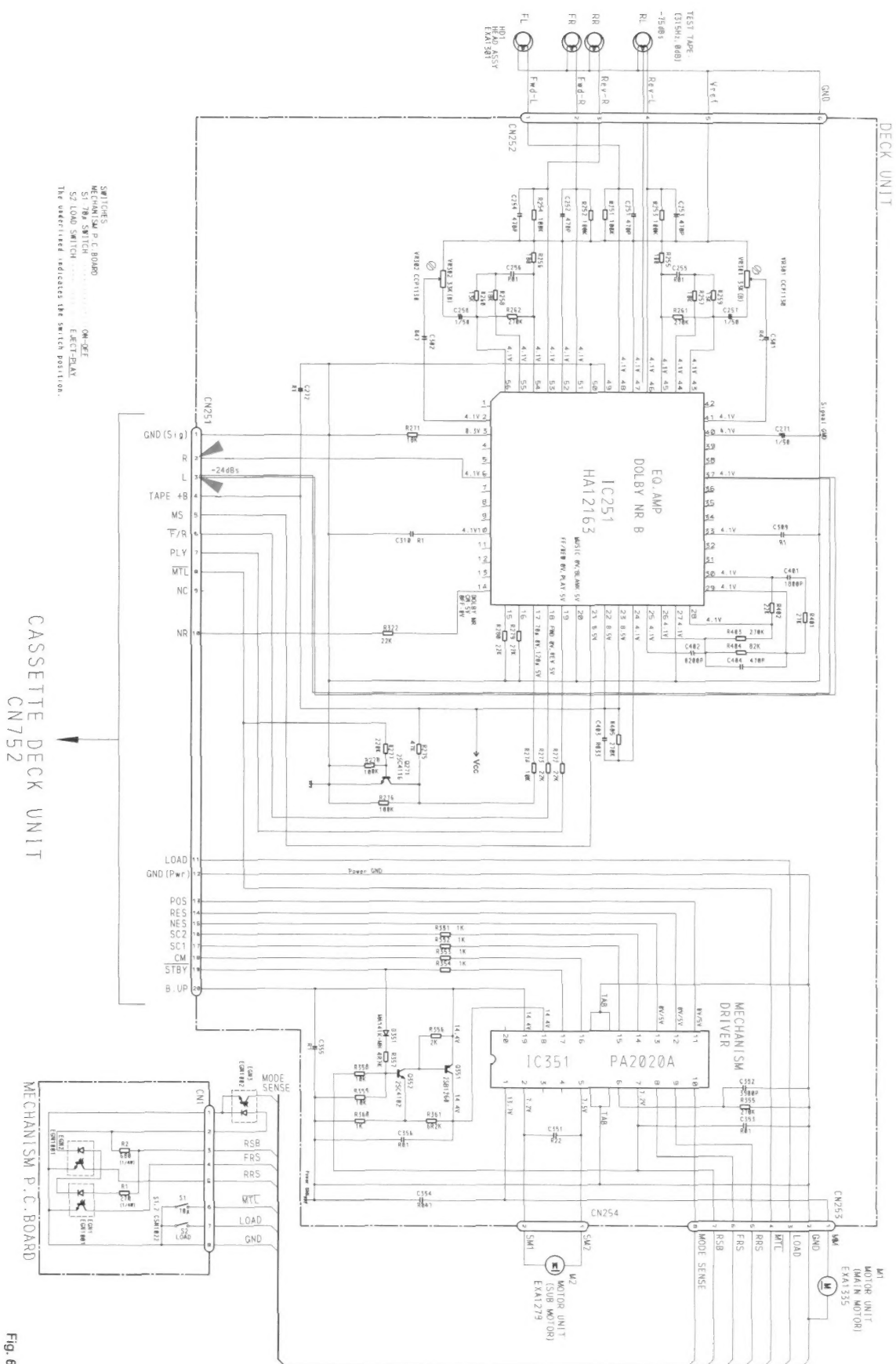
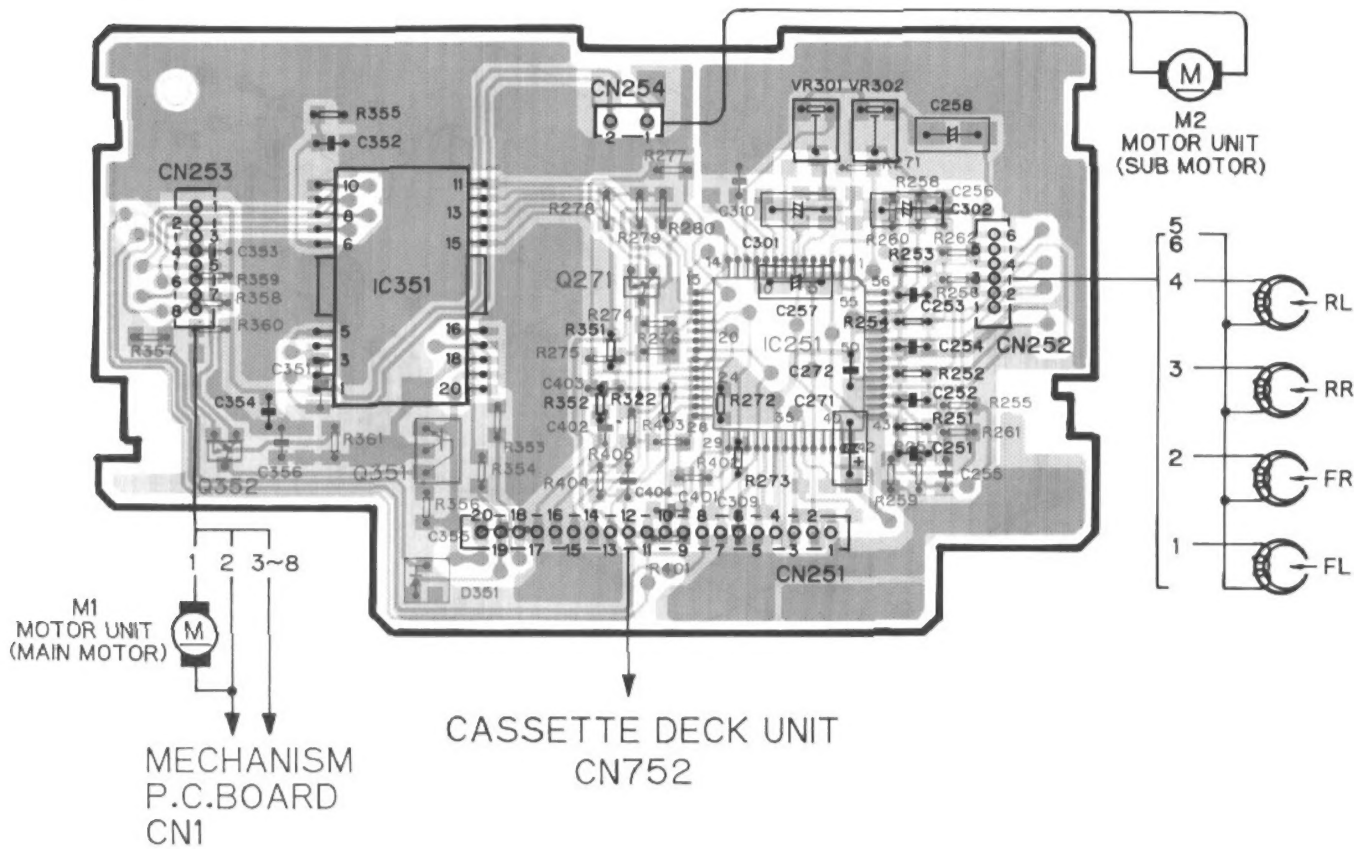


Fig. 6

● Connection Diagram

DECK UNIT

IC, Q Q352 IC351 Q351 Q271 IC251
ADJ VR301 VR302



MECHANISM P.C.BOARD

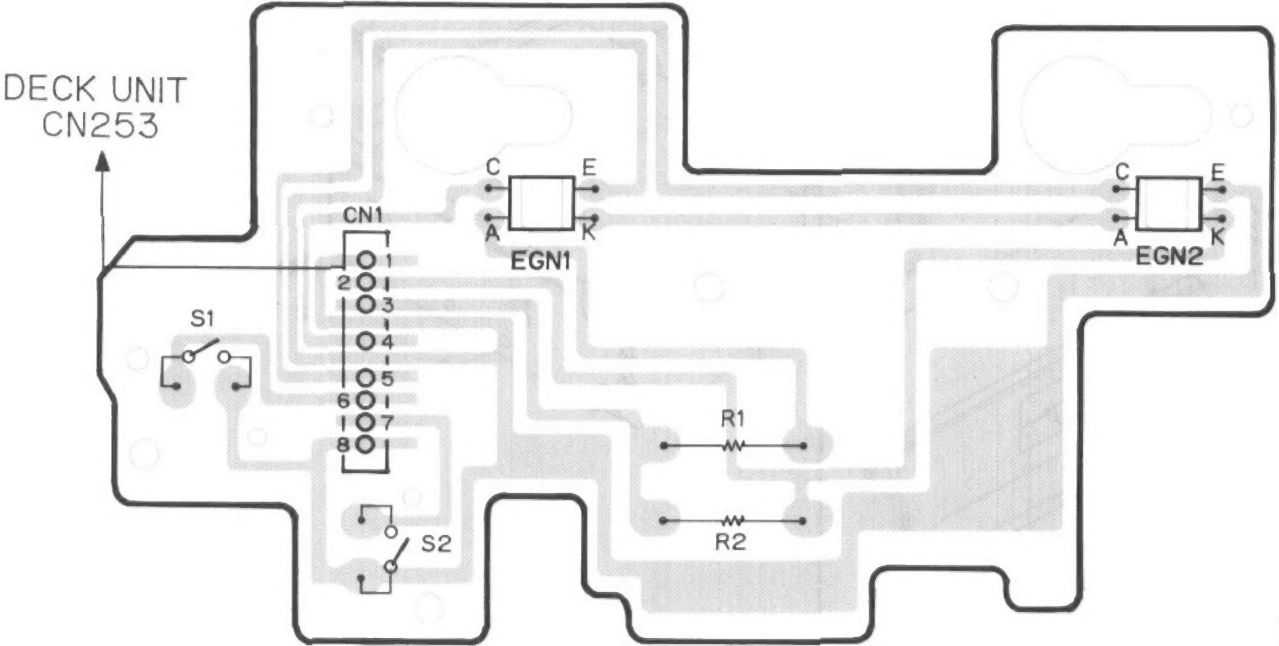


Fig. 7

8. EXPLODED VIEW AND PARTS LIST

8.1 CHASSIS

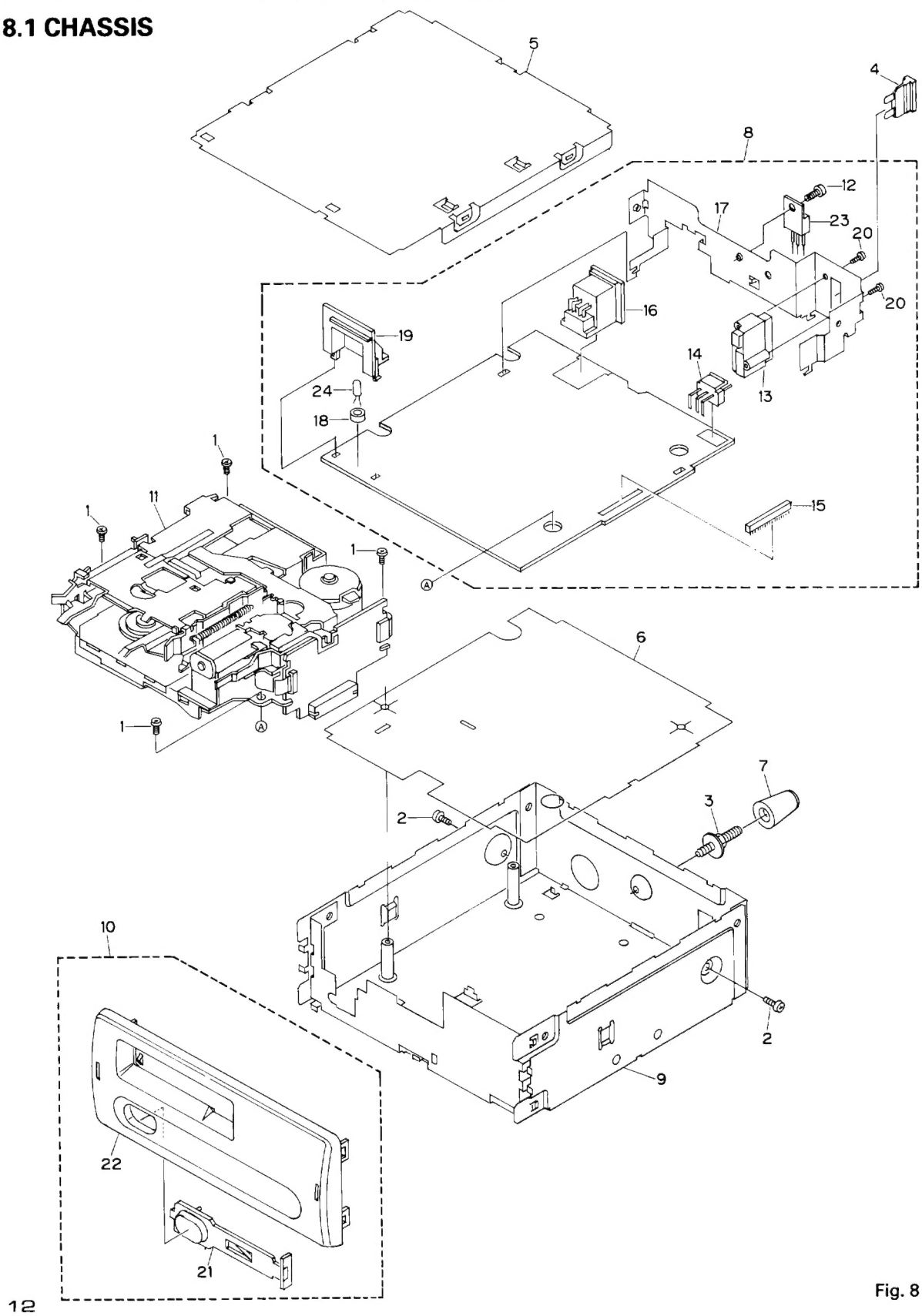


Fig. 8

NOTE:

● Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.

● Parts List

Mark No.	Description	Part No.
1	Screw	BMZ26P050FMC
2	Screw	BMZ30P040FMC
3	Screw	CBA1284
4	Fuse	CEK1005
5	Case	CNB1774
6	Insulator	CNM3849
7	Bush	CNV4077
8	Cassette Deck Unit	CWM3732(KPX-1056ZRN/WL) UWM3732(KPX-1056ZRN/X1B/WL)
9	Chassis Unit	CXA6117
10	Grille Assy	CXA6150(KPX-1056ZRN/WL) UXA6150(KPX-1056ZRN/X1B/WL)
11	Cassette Mechanism Module	EXK3010
12	Screw	BMZ30P050FMC
13	Auto Fuse Holder	CKR1011
14	Plug	CKS2372
15	Connector	CKS2752
16	Connector	CKS3180
17	Shield	CNC5083
18	Spacer	CNM1642
19	Cover	CNV4166
20	Screw	PPZ20P060FMC
21	Button	CAC4833
22	Grille Unit	CXA9346
23	IC(IC952)	NJM2930
24	Lamp(IL951)	CEL1415

8.2 CASSETTE MECHANISM MODULE

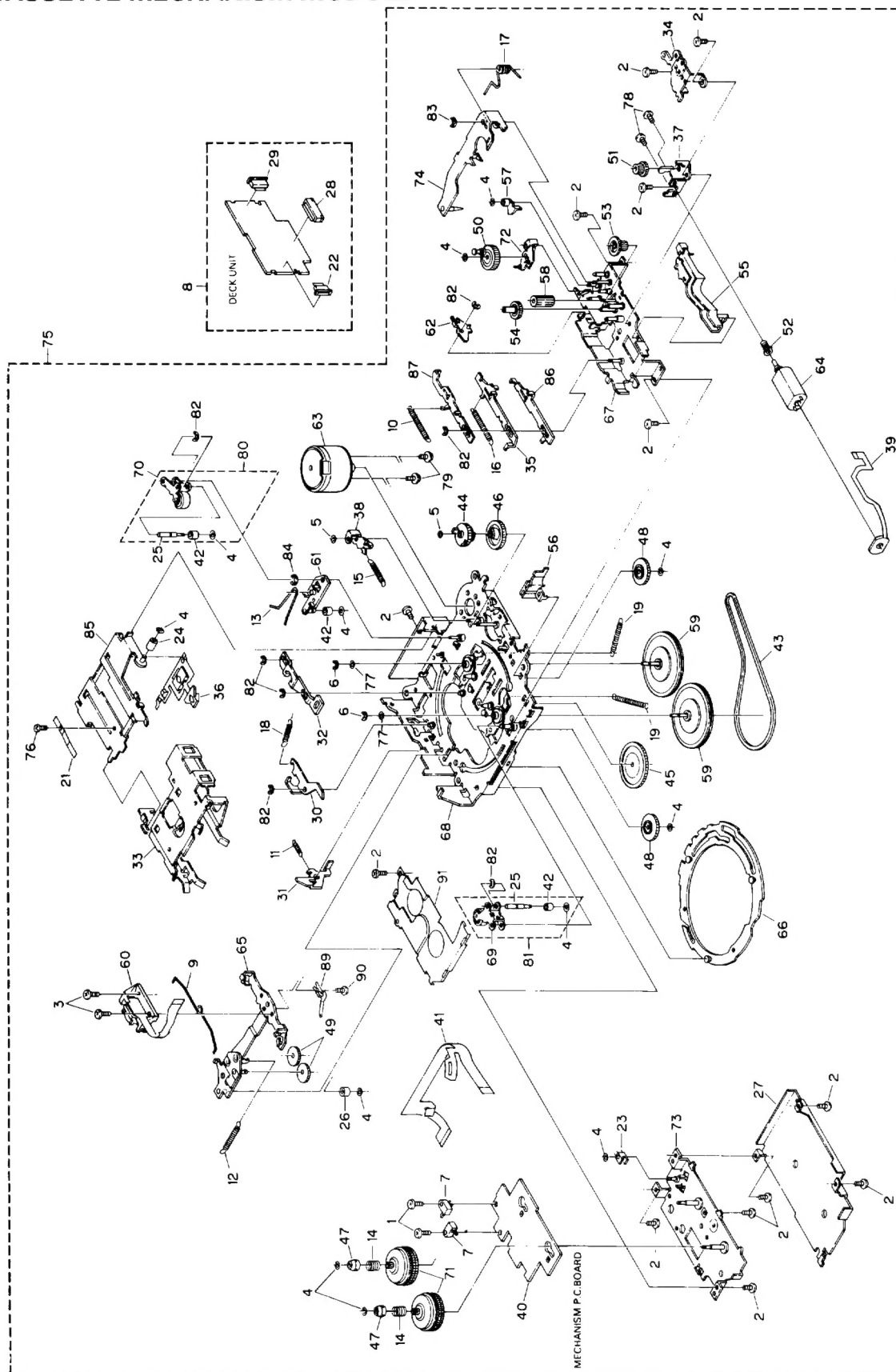


Fig. 9

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BMZ20P060FMC	46	Gear	ENV1348
2	Screw	BSZ20P040FMC	47	Collar	ENV1349
3	Screw(M2x4)	CBA1015	48	Gear	ENV1350
4	Washer	CBF1037	49	Gear	ENV1351
5	Washer	CBF1038	50	Gear	ENV1354
6	Washer	CBG1003	51	Gear	ENV1355
7	Switch	CSN1022	52	Gear	ENV1357
8	Deck Unit	CWM3792	53	Gear	ENV1358
9	Spring	EBH1458	54	Gear	ENV1359
10	Spring	EBH1434	55	Clamper	ENV1360
11	Spring	EBH1435	56	Clamper	ENV1361
12	Spring	EBH1437	57	Arm	ENV1362
13	Spring	EBH1464	58	Gear	ENV1363
14	Spring	EBH1439	59	Flywheel	ENV1410
15	Spring	EBH1440	60	Head Assy	EXA1301
16	Spring	EBH1441	61	Arm Unit	EXA1276
17	Spring	EBH1442	62	Arm Unit	EXA1277
18	Spring	EBH1443	63	Motor Unit	EXA1335
19	Spring	EBH1446	64	Motor Unit	EXA1279
20		65	Head Base Unit	EXA1340
21	Spring	EBL1016	66	Gear Unit	EXA1281
22	Connector(CN252)	CKS2127	67	Guide Unit	EXA1356
23	Photo-Interrupter	EGN1002	68	Chassis Unit	EXA1339
24	Roller	ELA1281	69	Pinch Roller Unit	EXA1284
25	Shaft	ELA1282	70	Pinch Roller Unit	EXA1285
26	Roller	ELA1283	71	Reel Unit	EXA1306
27	Cover	ENC1307	72	Arm Unit	EXA1338
28	Connector(CN251)	CKS1711	73	Sub Chassis Unit	EXA1312
29	Connector(CN253)	CKS2129	74	Arm Unit	EXA1289
30	Arm	ENC1310	75	Spare Unit	EXA2007
31	Arm	ENC1311	76	Screw	HBA-147
32	Lever	ENC1312	77	Washer	HBF-179
33	Holder	ENC1365	78	Screw	JGZ20P025FNI
34	Cover	ENC1372	79	Screw	EBA1031
35	Lever	ENC1315	80	Pinch Roller Assy	EXX1037
36	Lever	ENC1353	81	Pinch Roller Assy	EXX1038
37	Bracket	ENC1317	82	Washer	YE15FUC
38	Arm	ENC1335	83	Washer	YE20FUC
39	P.C.Board	ENP1109	84	Washer	YE25FUC
40	P.C.Board	ENP1106	85	Frame Unit	EXA1290
41	P.C.Board	ENP1119	86	Lever	ENC1308
42	Roller	ENR1023	87	Lever	ENC1309
43	Belt	ENT1027	88	
44	Gear	ENV1346	89	Spring	ELB1020
45	Gear	ENV1347	90	Screw	JFZ17P025FNI
			91	Cover	ENC1351

KPX-1056ZRN

9. PACKING METHOD

● Parts List

Mark No.	Description	KPX-1056ZRN/WL	KPX-1056ZRN/X1B/WL
		Part No.	Part No.
*	1 Polyethylene Bag	CEG1201	UEG1201
*	2 Contain Box	CHL2651	UHL2651
*	3 Protector(Lower, Upper)	CHP1716	UHP1716
*	4 Protector(Side)	CHP1717	UHP1717
*	5 Protector(Inner)	CHP1842
*	6 Protector(Unit)	CHP1843
*	Protector(Inner)	UHP1718